

# **Abstract of the Disclosure**

In accordance with one aspect of the present invention, there is provided a retractable device of sun shading suspensory umbrella mainly comprising an upper and lower support  
 5 umbrella rods, ribs and hand cranking device. The diameter of said upper support umbrella rod is less than said lower support umbrella rod, said upper umbrella rod is located within the low portion of said retractable device, said hand cranking retractable device is equipped within lower portion of said lower support umbrella rod, said hand cranking retractable device is a worm with a handle, which connects with an active worm gear and a  
 10 driven worm gear separately on both sides, said active worm gear and driven worm gear separately connects to entwined wire rope rotating wheel A and B through axletree, one end of said wire rope A is wired to rotating wheel A, the other end is securely mounted to lower umbrella tray, one end of said wire rope B is wired to rotating wheel B, the other end of said wire rope B is securely mounted to upper support umbrella rods. The  
 15 advantages of the present invention are as follows: The high performance of self-locking by adopting said worm gear and worm structure, not appearing the phenomena of disengage and retroflexion in stretching the sun shading umbrella.